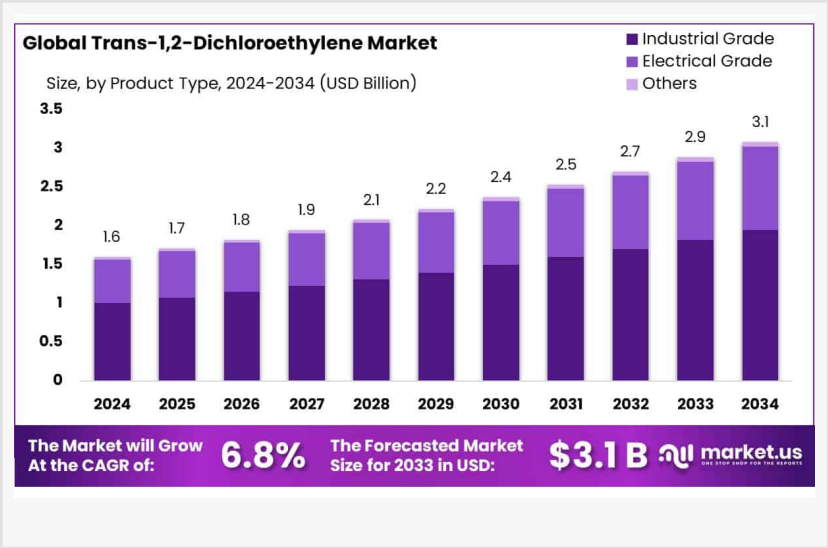
Trans-1,2-Dichloroethylene Market To Hit USD 3.1 Billion by 2034

Trans-1,2-Dichloroethylene Market size is expected to be worth around USD 3.1 Bn by 2034, from USD 1.6 Bn in 2024, growing at a CAGR of 6.8% from 2025 to 2034.



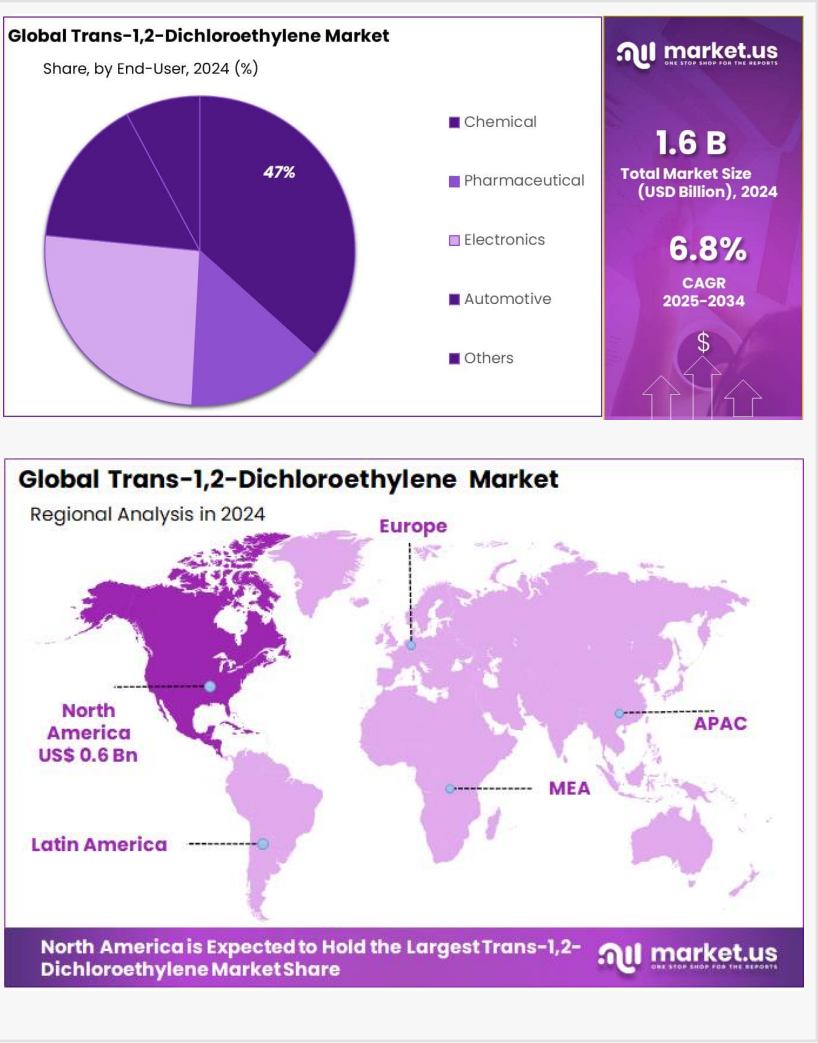
NEW YORK, NY, UNITED STATES, January 28, 2025 /EINPresswire.com/ -- The Global Trans-1,2-Dichloroethylene Market is currently on a trajectory of robust growth, expected to nearly double in size from USD 1.6 billion in 2024 to around USD 3.1 billion by 2034. This represents a significant compound annual growth rate (CAGR) of 6.8% during the forecast period from 2025 to 2034. Trans-1,2-dichloroethylene, a versatile organic compound known for its applications in various industrial processes including solvent production, is witnessing an increasing demand across diverse sectors.

> North America maintained a leading position in the Trans-1,2-Dichloroethylene market, holding a substantial 43.4% share, equivalent to approximately USD 0.6 billion”
>
> *Tajammul Pangarkar*

This chemical serves as a critical intermediate in the manufacture of high-performance solvents used in degreasing, dry cleaning, and the production of adhesives and specialty coatings. The growth of these downstream industries is a key driver for the expansion of the Trans-1,2-Dichloroethylene market. Additionally, its usage in the pharmaceutical and chemical industries as a precursor for synthesis reactions further broadens its application spectrum, thus fueling market growth.

From an industrial perspective, the market dynamics of Trans-1,2-Dichloroethylene are influenced by several factors. Primarily, the tightening of environmental regulations across the globe has prompted industries to seek out more environmentally friendly solvents, which has led to an increased demand for Trans-1,2-Dichloroethylene due to its lower toxicity and less volatile nature compared to other chlorinated solvents. Furthermore, advancements in chemical processing technologies have improved the efficiency and output of Trans-1,2-Dichloroethylene

production, thereby reducing production costs and enhancing market growth.



The market landscape is also being reshaped by strategic movements by key players, including mergers, acquisitions, and expansions, to leverage growing market opportunities. Companies are investing in technological innovations to improve the purity and performance characteristics of Trans-1,2-Dichloroethylene, which can open new applications and increase penetration in existing markets.

Regionally, Asia-Pacific is anticipated to be a significant growth driver for the Trans-1,2-Dichloroethylene market due to rapid industrialization and the expansion of manufacturing capabilities in countries such as China and India. These regions are experiencing a surge in demand for solvents and chemicals, which in turn boosts the market for Trans-1,2-Dichloroethylene. Moreover, North America and Europe continue to contribute to market growth, supported by established industrial sectors and ongoing research and development activities aimed at improving chemical processing technologies.

Looking toward the future, the Trans-1,2-Dichloroethylene market is poised to capitalize on several growth opportunities. One of the most promising areas is the potential development of new formulations that could be used in emerging technologies such as clean energy systems and advanced polymer manufacturing. Additionally, increasing awareness about sustainable industrial practices is likely to spur innovations in recycling and recovery processes, which could further enhance the market's growth.

Make confident decisions using our insights and analysis. Request a PDF Sample Report@ https://market.us/report/trans-12-dichloroethylene-market/free-sample/

Key Takeaways

• Trans-1,2-Dichloroethylene Market size is expected to be worth around USD 3.1 Bn by 2034, from USD 1.6 Bn in 2024, growing at a CAGR of 6.8%.

• Industrial Grade Trans-1,2-Dichloroethylene dominated the market, securing a significant 63.4% share.
• Solvent applications of Trans-1,2-Dichloroethylene held a dominant market position, capturing more than a 48.2% share.
• The chemical sector held a dominant position in the Trans-1,2-Dichloroethylene market, capturing more than a 47.3% share.
• North America dominated the Trans-1,2-Dichloroethylene market, capturing a significant share of 43.4%, valued at approximately USD 0.6 billion.

Trans-1,2-Dichloroethylene Top Trends

1. Digitalization and Automation in Production: The adoption of digital technologies like AI, IoT, and machine learning is revolutionizing the production of Trans-1,2-Dichloroethylene. These technologies enhance efficiency, accuracy, and cost-effectiveness by enabling real-time monitoring, predictive maintenance, and data-driven decision-making.

2. Regulatory Influence on Market Dynamics: Stringent environmental, safety, and health regulations are significantly shaping the Trans-1,2-Dichloroethylene market. These regulations aim to limit emissions, manage waste disposal, and ensure the safety of workers in manufacturing facilities, influencing the production and use of the chemical.

3. Advances in Production Technologies: Recent technological advancements have improved the efficiency and environmental footprint of Trans-1,2-Dichloroethylene production. New distillation processes and catalytic technologies are being implemented to achieve higher purity and sustainability in manufacturing.

4. Environmental Concerns and Impact: The persistence of Trans-1,2-Dichloroethylene in the environment poses significant risks, including contamination of soil and water sources and potential health hazards. The industry is under pressure to adhere to environmental regulations and develop safer chemical handling and disposal practices.

5. Supply Chain Dynamics: The supply chain for Trans-1,2-Dichloroethylene involves complex logistics to ensure a steady flow of raw materials and finished products. Efficient supply chain management is crucial to meet demand, minimize costs, and comply with safety regulations.

Key Market Segments

By Product Type

In 2024, Industrial Grade Trans-1,2-Dichloroethylene was the most prevalent in the market, holding a significant 63.4% share. This predominance is attributed to its extensive use in large-scale industrial applications, notably in solvent production and the synthesis of various chemicals. The grade's adaptability and critical role across diverse industries highlight its integral

nature in industrial processes. Electrical Grade also held a pivotal position, especially within the electronics sector. Its application as a solvent and cleaning agent is essential for maintaining the high standards of purity and performance required in electronics manufacturing, thereby ensuring the reliability and quality of electronic components.

By Application

Solvent uses of Trans-1,2-Dichloroethylene dominated the market in 2024, with a 48.2% share. The compound's efficacy as a solvent in chemical production and material processing across various sectors underscores its importance. Its properties are particularly advantageous for dissolving raw materials, facilitating synthesis processes, and cleaning production equipment. Cleaning applications were also substantial, utilizing the compound's effectiveness in dissolving oils, greases, and other contaminants. This capability is crucial for industrial maintenance and manufacturing cleanliness.

By End-User

The Chemical sector was a major user of Trans-1,2-Dichloroethylene in 2024, accounting for over 47.3% of the market. The sector extensively uses the compound as a solvent in chemical production, illustrating its vital role in various chemical processes. The Pharmaceutical industry also extensively utilizes Trans-1,2-Dichloroethylene, especially in drug manufacture and purification, where its solvent properties ensure the purity and efficacy of pharmaceutical products.

Key Market Segments List

By Product Type

- Industrial Grade
- Electrical Grade
- Others

By Application

- Solvent
- Cleaning
- Foam Blowing
- Others

By End-User

- Chemical
- Pharmaceutical

• Electronics
• Automotive
• Others

Regulations On the Trans-1,2-Dichloroethylene Market

1. Environmental Regulations: The production, use, and disposal of Trans-1,2-Dichloroethylene are regulated under various environmental guidelines to prevent contamination. The U.S. Environmental Protection Agency (EPA) monitors its impact on water quality, ensuring it meets ambient water quality criteria, which helps protect aquatic life.

2. Drinking Water Safety: The Safe Drinking Water Act regulates the levels of Trans-1,2-Dichloroethylene in drinking water to manage its potential health risks. The maximum contaminant levels are specifically set to mitigate any adverse health effects from prolonged exposure.

3. Air Quality Monitoring: Trans-1,2-dichloroethylene is also assessed under air quality management to limit exposure to this volatile organic compound. Guidelines help in maintaining air quality, especially in industrial areas where its use is prevalent.

4. Risk Evaluations: The EPA conducts risk evaluations under the Toxic Substances Control Act (TSCA) to determine the safety of Trans-1,2-Dichloroethylene. These evaluations help understand environmental and health impacts and guide the formulation of restrictions or safety measures.

5. Worker Safety: Regulations ensure that occupational exposure to Trans-1,2-Dichloroethylene, such as inhalation and dermal contact, is minimized. Protective measures and safety protocols are mandated in workplaces to protect employees from potential health risks.

Regional Analysis

In 2024, North America maintained a leading position in the Trans-1,2-Dichloroethylene market, holding a substantial 43.4% share, equivalent to approximately USD 0.6 billion. The region's strong performance is attributed to robust demand from key industries such as chemicals, electronics, and automotive, all of which extensively utilize this solvent in their manufacturing operations. The strict environmental regulations in North America also contribute to ongoing innovations in safer and more sustainable Trans-1,2-Dichloroethylene formulations, propelling further market growth.

Europe also captured a significant portion of the market, supported by vigorous industrial

activities and escalating investments in eco-friendly chemical practices. The region's commitment to reducing VOC emissions and enhancing green chemistry initiatives has amplified the uptake of Trans-1,2-Dichloroethylene across diverse sectors, including pharmaceuticals and textiles.

The Asia Pacific region is quickly becoming a major area of growth, fueled by the rapid industrial development in nations such as China, India, and South Korea. The escalating need for solvents in key manufacturing, electronics, and automotive industries suggests strong potential for market expansion in 2024, marking significant contributions to global demand.

Key Players Analysis

- 3M Company
- Air Products
- Akzo Nobel N.V.
- Arkema S.A.
- Asahi Kasei Corporation
- BASF SE
- Eastman Chemical Company
- Formosa Plastics Corporation
- Guizhou Lantian
- Honeywell International Inc.
- INEOS Group Holdings S.A.
- LG Chem Ltd.
- LyondellBasell Industries N.V.
- Mitsubishi Chemical Corporation
- Nantong Donggang
- Occidental Petroleum Corporation
- Olin Corporation
- PPG Industries, Inc.
- SABIC (Saudi Basic Industries Corporation)
- Shin-Etsu Chemical Co., Ltd.
- Solvay S.A.
- The Dow Chemical Company
- Toray Industries, Inc.
- Unistar

Conclusion

The Trans-1,2-Dichloroethylene market is poised for significant growth, driven by its indispensable role across various industrial sectors. As of 2024, North America continues to lead the market due to stringent environmental regulations and high demand from industries such as chemicals, electronics, and automotive. Europe and Asia Pacific follow closely, with Europe focusing on green chemistry and Asia Pacific benefitting from rapid industrialization in major

economies like China, India, and South Korea.

Future growth is expected to be fueled by technological advancements in production methods and an increasing focus on sustainability within the industry. These factors are anticipated to not only increase the efficiency but also reduce the environmental impact of Trans-1,2-Dichloroethylene production and usage. Market players will likely continue to innovate, seeking to develop safer and more effective product formulations to meet the evolving regulatory standards and market demands globally.

Lawrence John
Prudour
+91 91308 55334
Lawrence@prudour.com
